

Event Correlation Classes

1. Compression	$[a, a, \dots, a]$	\longrightarrow	a
2. Filtering	$[a, p(a) < H]$	\longrightarrow	\emptyset
3. Suppression	$[a, C]$	\longrightarrow	\emptyset
4. Count	$[n \times a]$	\longrightarrow	b
5. Escalation	$[n \times a, p(a)] \longrightarrow$	$a, p'(a), p' > p$	
6. Generalization	$[a, a \text{ subset } b]$	\longrightarrow	b
7. Specialization	$[a, a \text{ superset } b]$	\longrightarrow	b
8. Temporal Relation	$[a \text{ T } b]$	\longrightarrow	c
9. Clustering	$[a, b, \dots T, \text{ and, or, not}] \longrightarrow$		c

KEY

a, b, c	- Events	\times	- multiplication
\emptyset	- empty (no event)	$<$	- less
		$>$	- more
C	- contextual information		
n	- integer		
$p(a)$	- parameter of event a		
H	- threshold		
T	- temporal relation		
	and, or, not - logical operators		

FIG. 1

Hierarchy of Services

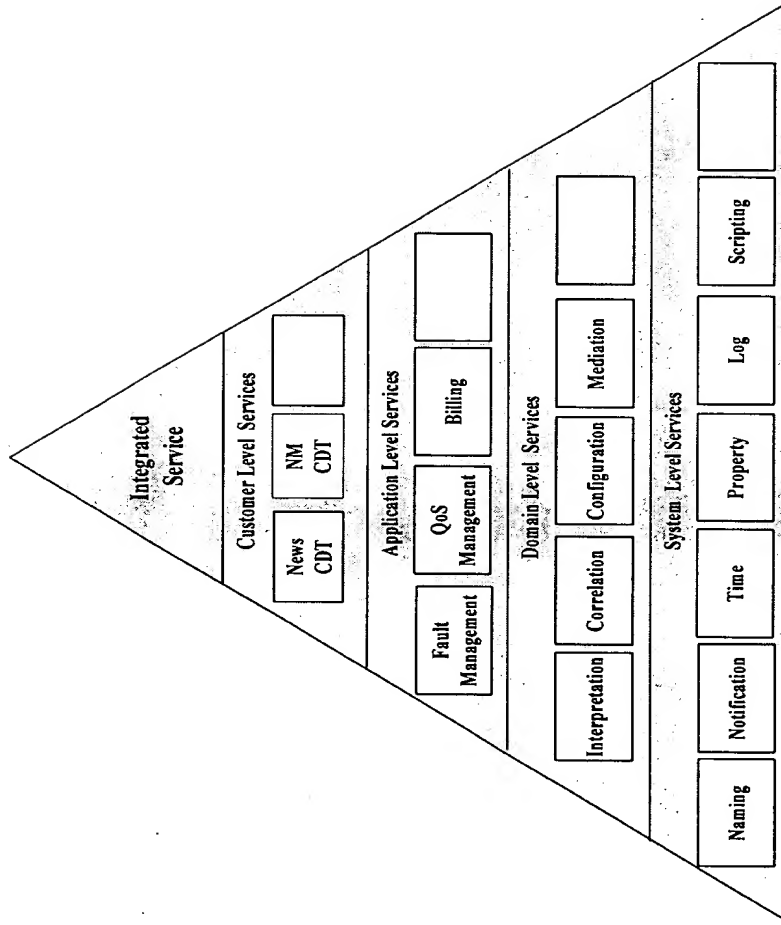


FIG. 2

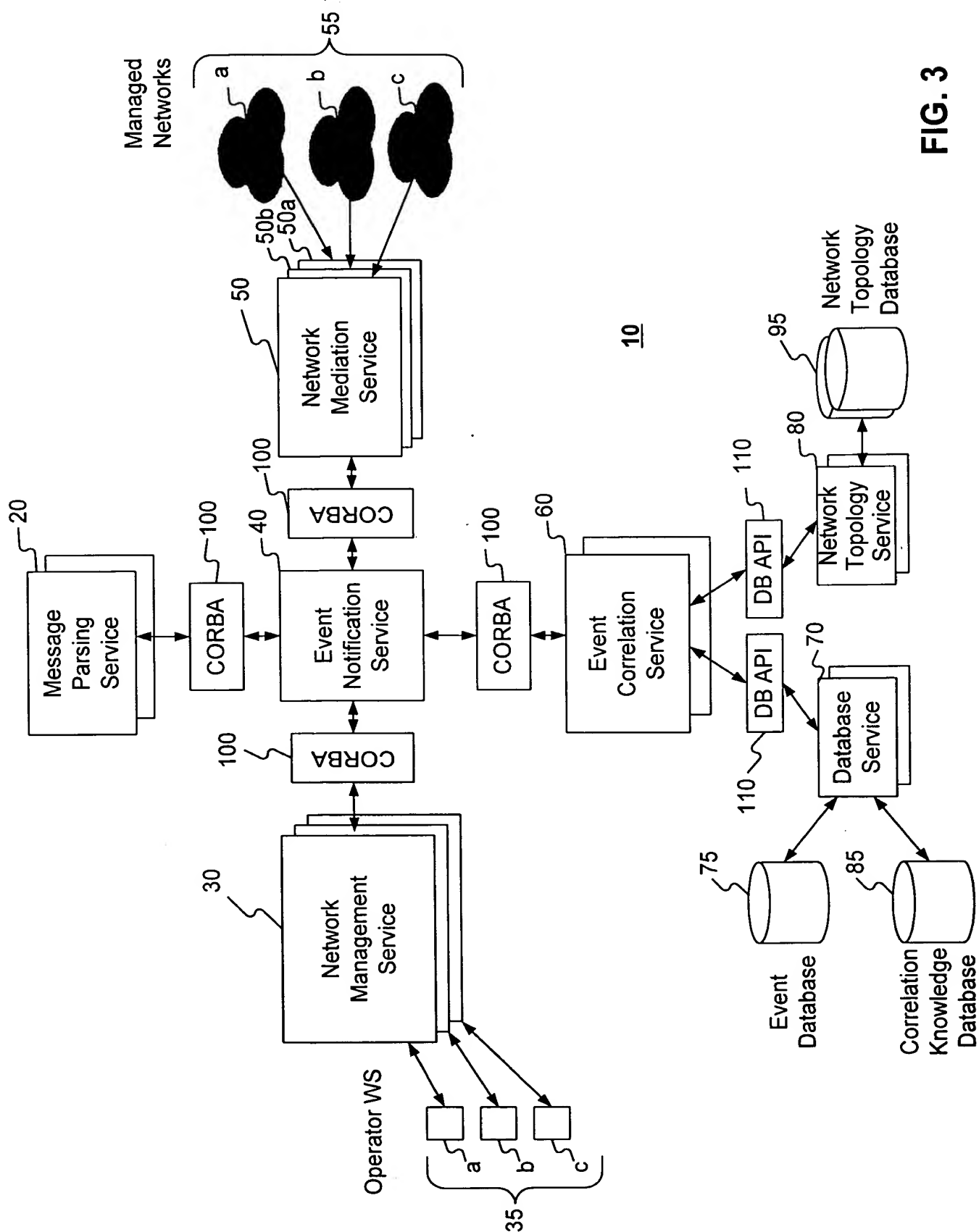


FIG. 3

005350 T 2022500

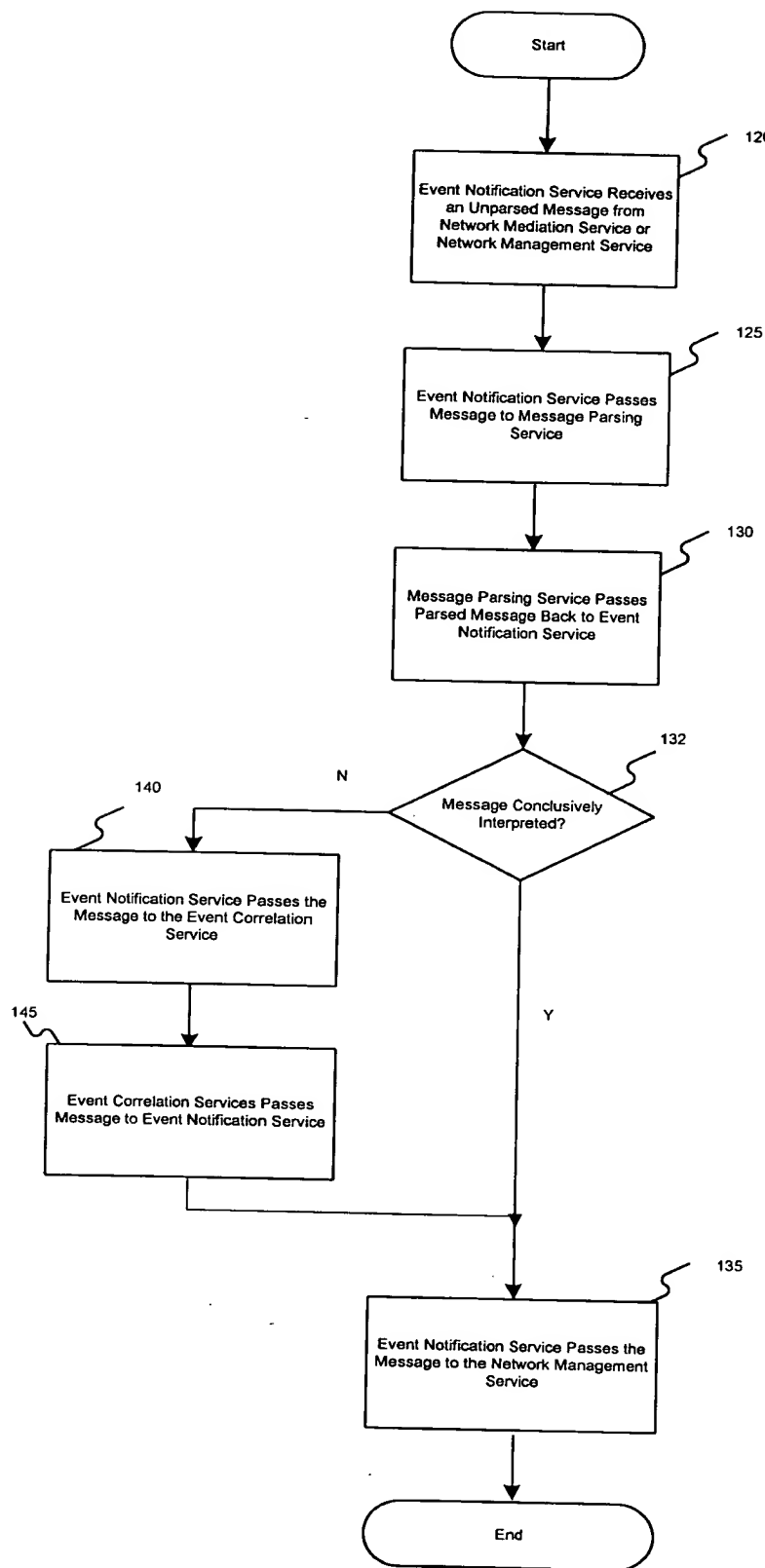


FIG. 4

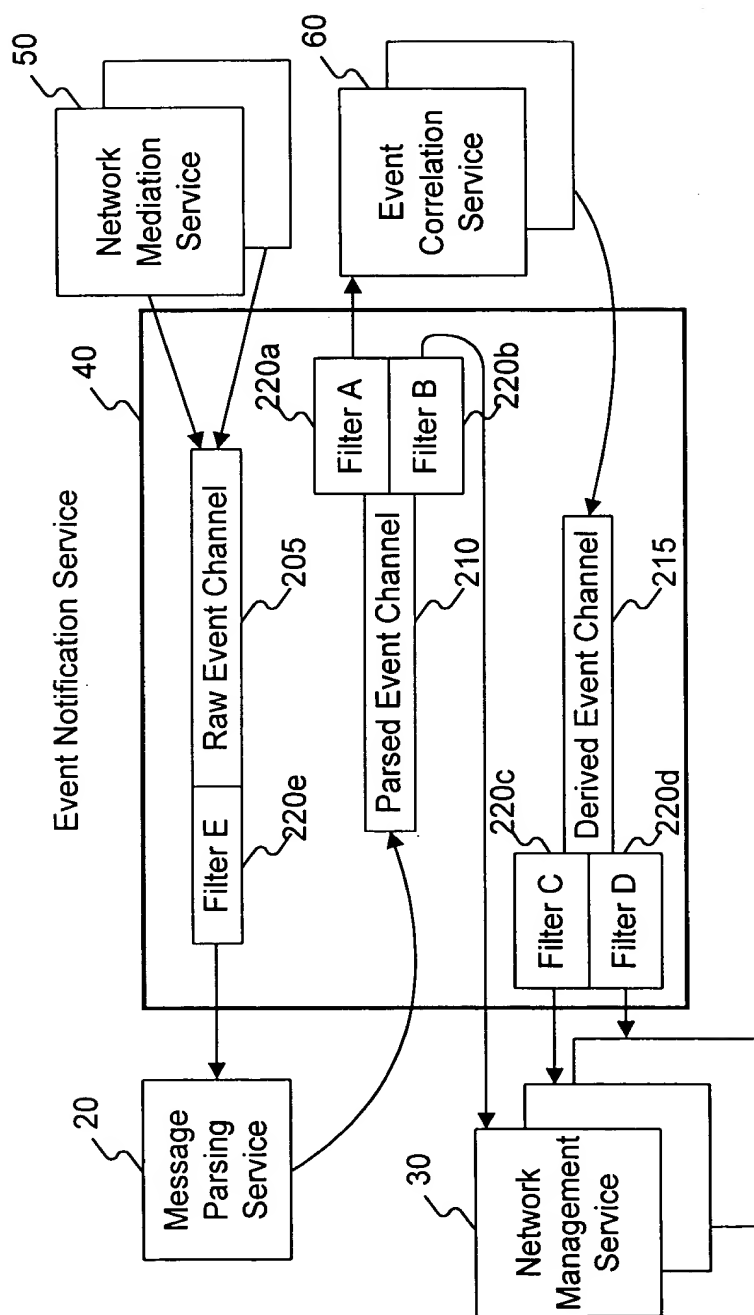


FIG. 5

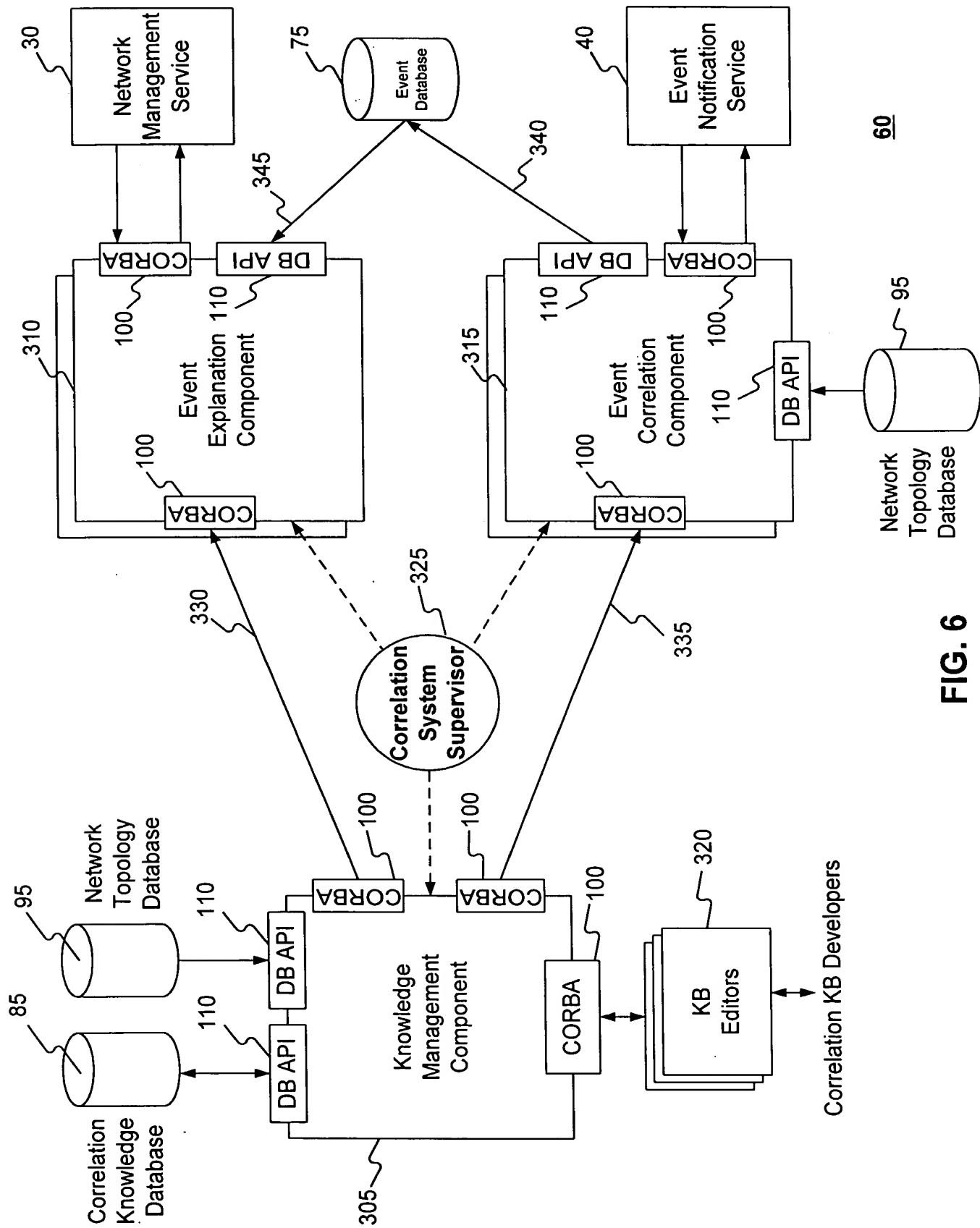


FIG. 6

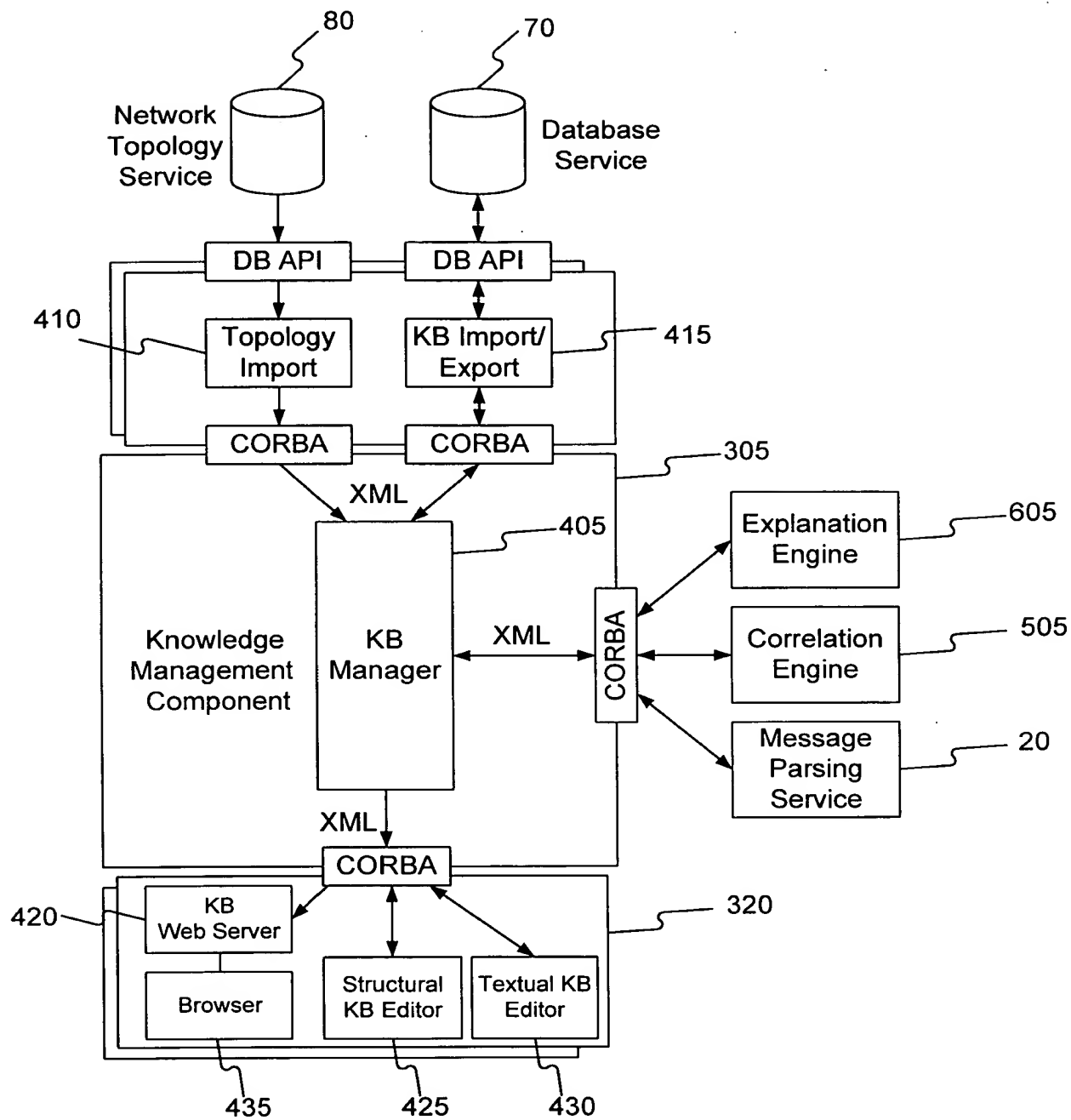


FIG. 7

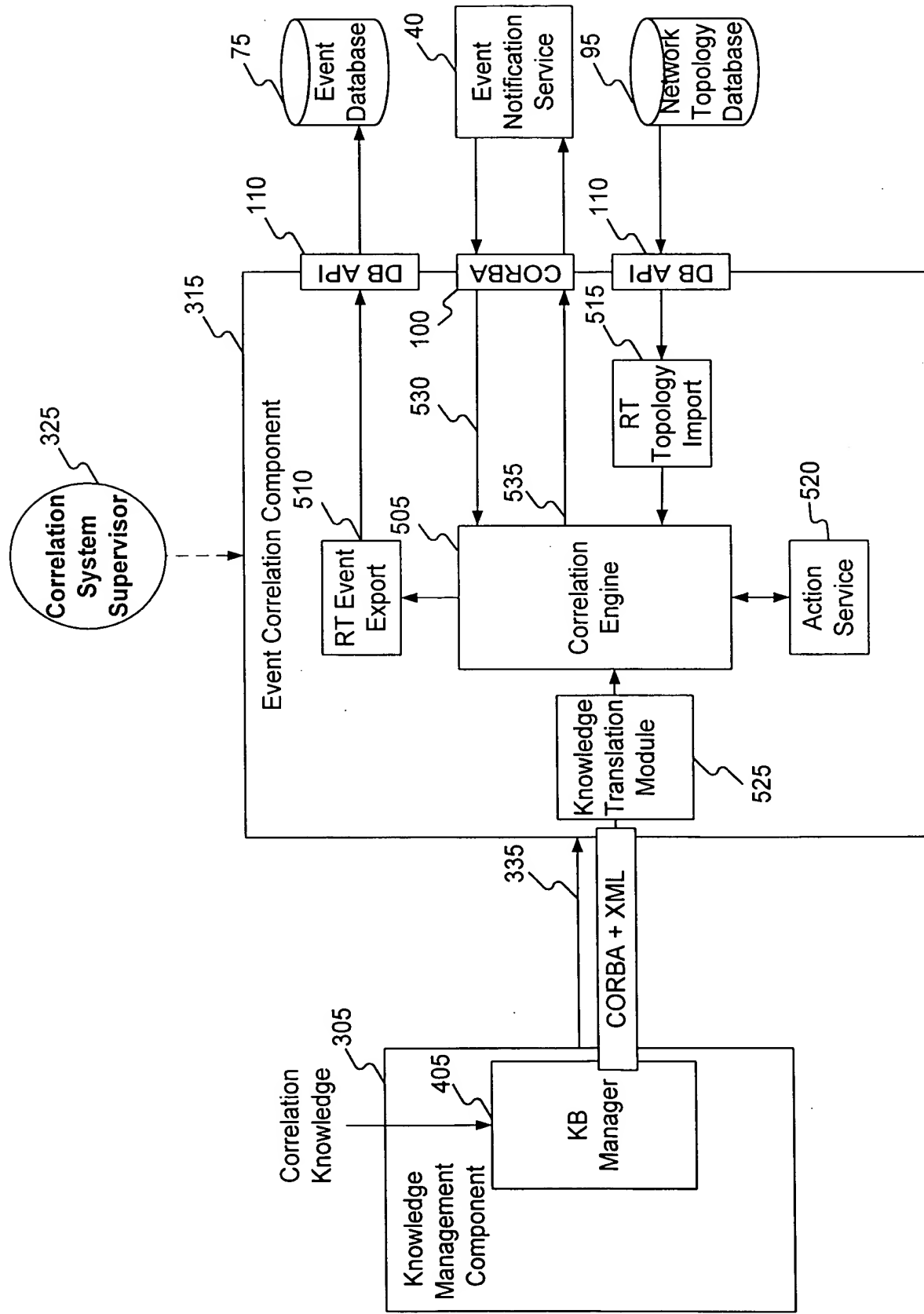


FIG. 8

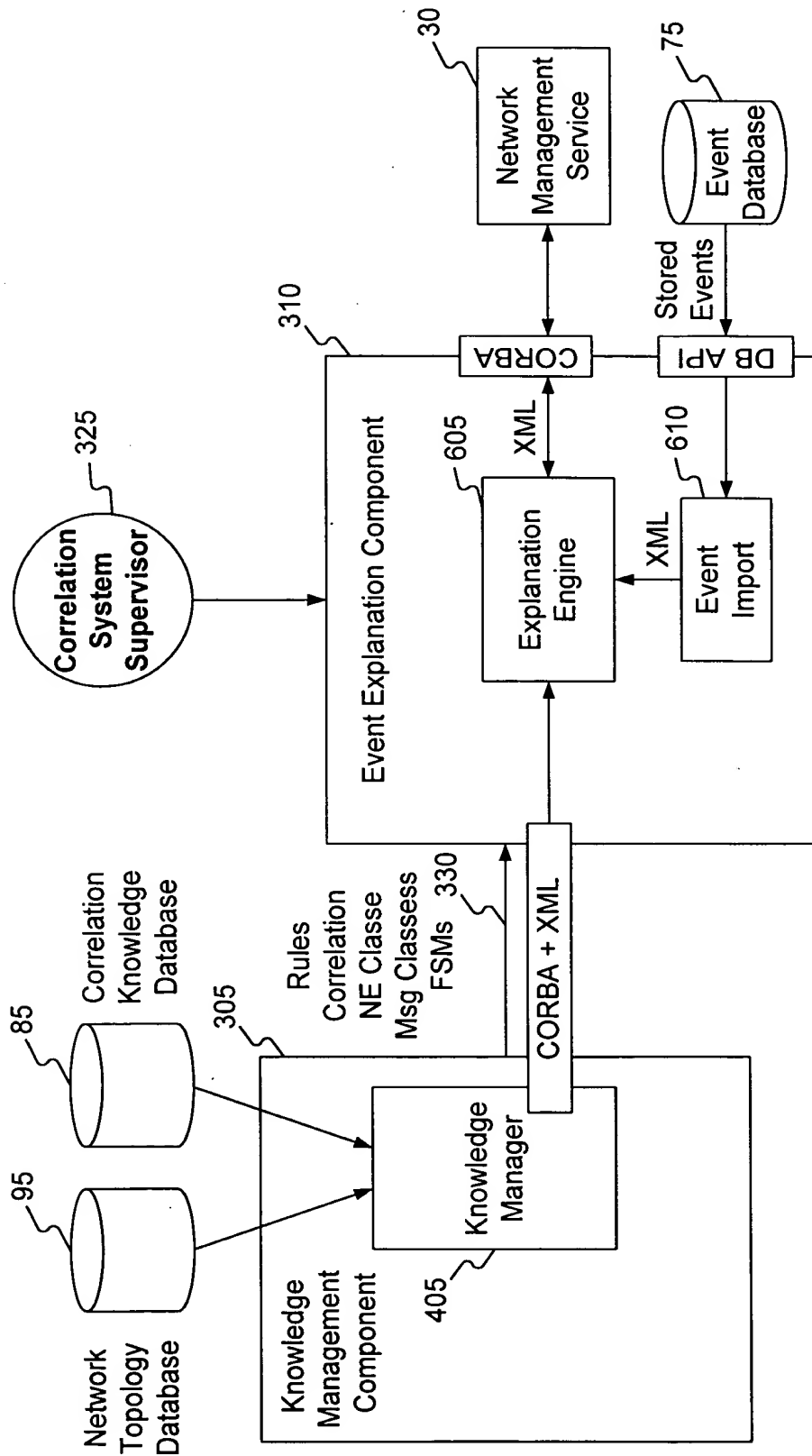


FIG. 9

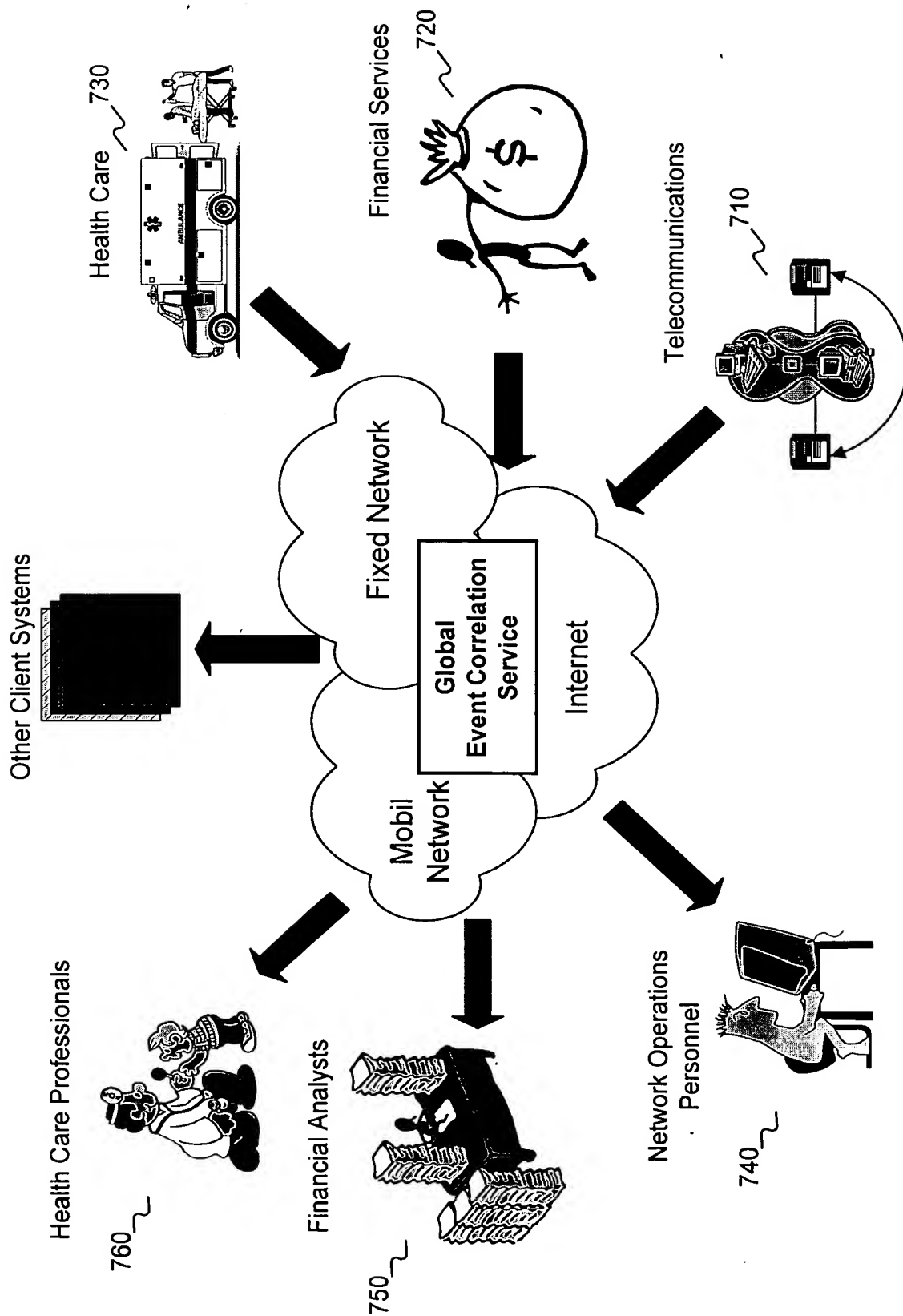


FIG. 10